

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/004505 A1

(51) International Patent Classification⁷: A43B 7/12

(21) International Application Number:
PCT/EP2003/007273

(22) International Filing Date: 7 July 2003 (07.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PD2002A000187 9 July 2002 (09.07.2002) IT

(71) Applicant (for all designated States except US): GEOX
S.P.A. [IT/IT]; Via Feltrina Centro, 16, I-31044 Montebelluna,
Località Biadene - (Treviso) (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): POLEGATO
MORETTI, Mario [IT/IT]; Via Antonini, 7, I-31035 Crocetta
del Montello (IT). FERRARESE, Antonio [IT/IT];
Via Rimembranza, 23, I-37063 Isola Della Scala (IT).

(74) Agent: MODIANO, Guido; Modiano & Associati, Via
Meravigli, 16, I-20123 Milano (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW).
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM).
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR). OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(48) Date of publication of this corrected version:
13 January 2005

(15) Information about Correction:

see PCT Gazette No. 02/2005 of 13 January 2005, Sec-
tion II

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: WATERPROOF AND BREATHABLE SOLE FOR SHOES

(57) Abstract: Waterproof and breathable sole for shoes, having a structure that comprises: a mid-sole component (10, 110) with a membrane (11, 111) made of a material that is impermeable to water and permeable to water vapor and is connected in spots with a lower protective layer (14, 114) made of a material that is resistant to hydrolysis, water-repellent, breathable and/or perforated; a tread (15, 115) made of perforated elastomer that is joined perimetricaly and hermetically to the component (10, 110); said membrane (11, 111) being associated with said protective layer (14, 114) by way of a thermoreactive adhesive (13, 113).

WO 2004/004505 A1

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/004505 A1

- (51) International Patent Classification⁷: **A43B 7/12** (74) Agent: MODIANO, Guido; Modiano & Associati, Via Meravigli, 16, IT-20123 Milano (IT).
- (21) International Application Number:
PCT/EP2003/007273 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GI, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 7 July 2003 (07.07.2003) (84) Designated States (*regional*): ARIPO patent (GI, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PD2002A000187 9 July 2002 (09.07.2002) IT
- (71) Applicant (*for all designated States except US*): GEOX S.p.A. [IT/IT]; Via Feltrina Centro 16, I-31044 Montebelluna (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): POLEGATO MORETTI, Mario [IT/IT]; Via Antonini, 7, I-31035 Crocetta del Montello (IT). FERRARESE, Antonio [IT/IT]; Via Rimembranza, 23, IT-37063 ISOLA DELLA SCALA (IT).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: WATERPROOF AND BREATHABLE SOLE FOR SHOES

(57) Abstract: Waterproof and breathable sole for shoes, having a structure that comprises: a mid-sole component (10, 110) with a membrane (11, 111) made of a material that is impermeable to water and permeable to water vapor and is connected in spots with a lower protective layer (14, 114) made of a material that is resistant to hydrolysis, water-repellent, breathable and/or perforated; a tread (15, 115) made of perforated elastomer that is joined perimetricaly and hermetically to the component (10, 110); said membrane (11, 111) being associated with said protective layer (14, 114) by way of a thermoreactive adhesive (13, 113).



WO 2004/004505 A1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/07273

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A43B7/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A43B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02 32246 A (POLEGATO MORETTI MARIO ;NOTTINGTON HOLDING BV (NL)) 25 April 2002 (2002-04-25) cited in the application the whole document	1-7
Y	DE 100 58 094 C (GORE W L & ASS GMBH) 2 May 2002 (2002-05-02) paragraph '0052!; figure 6	1-7
Y	WO 98 51177 A (POLEGATO MARIO ;NOTTINGTON HOLDING BV (NL)) 19 November 1998 (1998-11-19) cited in the application the whole document	1-7
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 September 2003

Date of mailing of the international search report

17/09/2003

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax (+31-70) 340-3016

Authorized officer

Cianci, S

INTERNATIONAL SEARCH REPORT

Internat Application No

PCT/tr 03/07273

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 82731 A (GORE W L & ASS GMBH ;HAIMERL FRANZ XAVER (DE)) 8 November 2001 (2001-11-08) page 12, line 8 -page 14, line 33 -----	1-7

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

tion on patent family members

Internati Application No

PCT/cr 03/07273

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0232246	A	25-04-2002	IT PD20000242 A1	19-04-2002
			AU 1696102 A	29-04-2002
			WO 0232246 A1	25-04-2002
			EP 1326503 A1	16-07-2003
DE 10058094	C	02-05-2002	DE 10058094 C1	02-05-2002
			AU 1605102 A	03-06-2002
			WO 0241721 A1	30-05-2002
WO 9851177	A	19-11-1998	IT PD970102 A1	09-11-1998
			AT 245366 T	15-08-2003
			AU 751986 B2	05-09-2002
			AU 7650798 A	08-12-1998
			BR 9809606 A	04-07-2000
			CN 1255045 T	31-05-2000
			DE 69816614 D1	28-08-2003
			EA 1663 B1	25-06-2001
			EE 9900522 A	15-06-2000
			WO 9851177 A2	19-11-1998
			EP 1312275 A2	21-05-2003
			EP 0983006 A2	08-03-2000
			HU 0001668 A2	28-09-2000
			JP 2001524854 T	04-12-2001
			NO 995456 A	08-11-1999
			NZ 500742 A	30-11-2001
			NZ 514563 A	29-04-2003
			PL 336785 A1	17-07-2000
			SK 152899 A3	16-05-2000
			TR 9902763 T2	21-03-2000
			US 2002100187 A1	01-08-2002
			US 6389711 B1	21-05-2002
WO 0182731	A	08-11-2001	DE 10020738 C1	24-01-2002
			AU 6024001 A	12-11-2001
			WO 0182731 A2	08-11-2001
			EP 1280430 A2	05-02-2003